

V.—*List of Earthquakes recorded in Assam during the years 1879 and 1880.—By the GOVERNMENT OF ASSAM.*
(Communicated by the METEOROLOGICAL REPORTER TO THE GOVERNMENT OF BENGAL.)

In the following list the earthquakes marked with an asterisk * were ascertained not to have been felt in other localities than those which are mentioned.

Date.	District.	Time of occurrence.	Duration.	Apparent direction.	Extent of damage, if any and general Remarks.
1879.					
Jan. 3rd.	Golaghat,	7.15 A. M.	1 minute.	West to East.	None.
" "	Jaipur,	7.30 A. M.	5 minutes.	E. to W.	Severe.
" "	Darrang,	7.50 A. M.	30 seconds.	N. W. to S. E.	No damage shock very slight but vibration, after it of unusually long duration.
" "	Lakhimpur,	7.51 A. M.	About 12 seconds.	From 192° magnetic bearing.	A very smart shock accompanied and preceded by the usual rumbling sound but having a rather sharper tone than ordinary. The oscillations about .8 of a second apart caused some damage, a very slight shock took place about 3 A. M. this morning.
" "	Khasi and J. Hills,	8 A. M.	3 seconds.	S. to N.	} No damage, shock slight.
" "	Kamrup,	8 A. M.	4 seconds.	S. to E.	
" "	Jorhát,	8.30 A. M.	1 minute.	W. to E.	
" "	Sibsagar,	8.3 A. M.	2 minutes.	E. to W.	
" "	N. Lakhimpur,	8.15 A. M.	2 seconds.	Not recognizable.	
April 19th.	*Jowai, K. and J. Hills,	5 A. M.	15 seconds.	S. to N.	Ascertained to have not been felt in Sylhet, Cachar, Goalpára, Garo Hills, and Nowgong.
May 10th.	*K. and J. Hills,...	9 A. M.	10 seconds.	W. to E.	No damage. Do.

List of Earthquakes recorded in Assam during the years 1879 and 1880.—Continued.

Date.	District.	Time of occurrence.	Duration.	Apparent direction.	Extent of damage, if any and general Remarks.
1879.					
June 5th.	*Nowgong,	7.2 A. M.	2 seconds.	N. to S.	No damage.
" 7th.	*K. and J. Hills,	6.30 P. M.	5 seconds.	W. to E.	Do.
" 10th.	*Garo Hills,	7.15 P. M.	1 second.	W. to E.	Do.
" 25th.	*Darrang,	12.20 P. M.	A few sec.	Not apparent.	Do.
Sept. 7th.	*Sibsagar,	11.40 P. M.	57 seconds.	N. W. to S. E.	Do.
" "	*Lakhimpur,	11.35 P. M.	2 minutes.	West to East.	Do.
" 17th.	*Nowgong,	12.30 P. M.	3 seconds.	N. to S.	A very slight shock, no damage.
" 23rd.	*K. and J. Hills, {	4.40 P. M.	3 seconds.	} Not noticed.	Smart and marked shock no damage.
" 24th.		9 A. M.	30 seconds.		
Oct. 3rd.	*Naga Hills,	12.10 P. M.	2 seconds.	S. E. to N. W.	No damage.
" 8th.	†Kamrup,	2 A. M.	4 seconds.	N. to S.	Do.
" "	†Darrang,	1.45 A. M.	10 to 15 sec.	N. W. to S. E.	Two consecutive shocks.
" "	†Cachar,	12.45 A. M.	2 seconds.	N. E. to S. W.	None. Two smart shocks.
" "	†Nowgong,	1.36 A. M.	2 m. 10 s.	S. to N.	Slight shock. No damage.
" "	†Sylhet,	2 A. M.	30 seconds.	S. W. to N. E.	Smart shock. No damage.
" "	†K. and J. Hills,	1.45 A. M.	30 seconds.	W. to E.	Do. do. do.
" "	†Garo Hills,	1 A. M.	1 second.	W. to E.	Do. do. do.
Dec. 4th.	*Darrang,	4.30 A. M.	5 seconds.	Not known.	None.
" 12th.	*Nowgong,	7.35 P. M.	1 minute.	S. to N.	Slight shock. No damage.
" "	*K. and J. Hills,	12.15 P. M.	5 seconds.	N. W. to S. E.	Do. do.
" 16th.	*Darrang,	9.55 A. M.	A few sec.	Not observed.	The shock was very slight but there was a prolonged rumbling noise no damage done.
" "	*Khasi and J. Hills,	5.30 A. M.	5 seconds.	W. to E.	No damage.

† Ascertained to have not been felt in Goalpara, Sibsagar, Lakhimpur and Naga Hills.

"	18th.	*Khasi and J. Hills,	5.30 P. M.	15 seconds.	W. to E.	Damage none.
"	"	*Cachar,	6.45 P. M.	3 seconds.	S. W. to N. E.	Two shocks no damage.
"	"	*Nowgong,	6 P. M.	90 seconds.	W. to E.	One sharp shock no damage.
"	"	*Sibsagar,	6 P. M.	Less than 1 s.	W. to E.	None.
"	"	*Darrang,	5.49 P. M.	A few sec.	N. W. to S. E.	Slight, no damage.
"	"	*Naga Hills,	6.25 P. M.	4 seconds.	N. W. to S.	Nil.
"	"	*Garó Hills,	6 P. M.	30 seconds.	S. E. to N. W.	No damage done.
"	22nd.	*Cachar,	6.30 A. M.	2 seconds.	S. W. to N. E.	One shock no damage.
"	"	*Khasi and J. Hills,	5.30 A. M.	5 seconds.	W. to E.	Do.
"	27th.	*Darrang,	12.6 P. M.	A few sec.	Nil.	The shock was slight but there was a prolonged rumbling noise. No damage.
1880.						
Jan.	2nd.	*Nowgong,	10 A. M.	10 seconds.	N. to South.	A slight shock, no damage done.
"	15th.	*Kamrup,	7.5 P. M.	5 seconds.	W. to East.	One slight shock, no damage done.
"	"	*Darrang,	7 P. M.	20 seconds.	Not observed.	Do.
"	"	*Nowgong,	7.10 P. M.	3 seconds.	W. to South.	Do.
"	"	*Sibsagar,	7.20 P. M.	About 1 m.	N. W. to S.	Do.
"	"	*Jorhat Sub-Div.,	7.30 P. M.	1 second.	S. W. to N. E.	Do.
"	"	*Khasi Hills,	6.30 P. M.	5 seconds.	E. to West.	Do.
"	17th.	*Khasi Hills,	7.40 A. M.	5 seconds.	S. to North.	Slight shock, no damage done.
"	"	*Garó Hills,	7 P. M.	5 seconds.	S. E. to N. W.	Do.
"	27th.	*Nowgong,	8.40 P. M.	5 seconds.	N. to South.	Do.
"	"	*Darrang,	About 9 P. M.	A few sec.	Not noticed.	Do.
"	"	*Darrang,	11.44 P. M.	A few sec.	Not observed.	Do.
"	April 4th.	*Kamrup,	10.45 P. M.	2 seconds.	W. to East.	No damage done. There was one smart shock preceded by a rumbling noise as of distant thunder.
"	"	*Khasi Hills,	6.50 P. M.	5 seconds.	N. to South.	No damage done.

List of Earthquakes recorded in Assam during the years 1879 and 1880.—Continued.

Date.	District.	Time of occurrence.	Duration.	Apparent direction.	Extent of damage, if any and general Remarks.
1880.					
May 1st.	*Nowgong.	3 A. M.	30 seconds.	N. to South.	One sharp shock. No damage done.
" 2nd.	*Khasi Hills,	1.45 A. M.	20 seconds.	N. to South.	No damage done.
" "	*Darrang,	3 A. M.	5 seconds.	W. to East.	Do. do.
" "	*Nowgong,	2.50 A. M.	30 seconds.	N. to South.	One severe shock. No. damage done.
" 17th.	*Sibsagar,	12 P. M.	2 seconds.	E. to West.	No damage done.
" 18th.	*Khasi Hills,	10.15 P. M.	5 seconds.	N. to South.	Do. do.
June 7th.	*Khasi Hills,	10.30 P. M.	10 seconds.	N. to South.	Do. do.
" "	*Sub-Division				
" "	Hailakandy,	10.25 P. M.	10 seconds.	S. to North.	No damage done. Three very slight but distinct shocks.
" 30th.	Sylhet,	4 A. M.	15 to 20 seconds each.	S. W. & N. East.	4 Shocks at intervals. No damage done.
" "	Cachar,	4.5 A. M.	30 seconds.	E. to West.	2 Smart shocks. No serious damage done.
" "	Khasi Hills,	3.55 A. M.	30 seconds.	N. to South.	2 Slight shocks at intervals. No damage done.
" "	Kámrup,	4 A. M.	2 minutes.	N. W. to S. E.	2 Smart shocks. No damage done.
" "	Goalpára,	4 A. M.	2 minutes.	E. to West.	First a slight shock followed by a severe one. No damage done.
" "	Garo Hills,	3.59 A. M.	2 minutes.	S. W. to N. E.	This was a double shock of considerable violence, accompanied and followed by a loud rumbling sound.
" "					No damage done but small articles were knocked off shelves, tables, &c.
" "	Garo Hills,	7.45 A. M.	2 seconds.	S. W. to N. E.	A very slight shock.

"	Darrang,	..	4.10 A. M.	2½ minutes.	N. W. to S. E.	Two consecutive shocks the first one was rather severe. No damage done.
"	Nowgong,	...	4 A. M.	1 minute.	S. to North.	The earthquake lasted a long time, one of the longest felt. Very little damage done.
"	Nowgong,	...	4.30 A. M.	5 seconds.	S. to North.	A slight shock.
"	Sibsagar,	...	3.55 A. M.	30 seconds.	S. to North.	No damage done.
"	Lakhimpur,	...	4.19 A. M.	30 seconds.	E. to West.	} No material damage done.
"	Lakhimpur,	...	4.24 A. M.	2 seconds.	E. to West.	
"	Lakhimpur,	...	4.50 A. M.	5 seconds.	E. to West.	
"	Lakhimpur,	...	5.23 A. M.	A few sec.	E. to West.	
"	Naga Hills,	...	4 A. M.	1 minute.	S. to North.	
"	Mangaldai Sub-Div.,	...	4 A. M.	60 to 80 sec.	N. to South.	Vibration was sufficiently strong to throw down decanters and such like articles, but no material damage.
"	Golághát Sub-Div.,	...	3.55 A. M.	2 minutes.	E. to West.	Two severe consecutive shocks. No damage done.
"	Jorehat Sub-Div.,...	...	4 A. M.	30 seconds.	N. E. to S. West.	The outer wall of the treasury building cracked in four places. The shock was very severe and was succeeded by a slighter one about 3 or 4 minutes later.
"	Karingunj Sub-Div.,	...	4 A. M.	1 minute.	N. to South.	No damage done.
"	*Nowgong,	...	4.30 P. M.	3 seconds.	N. to South.	There was a second slight shock about 10 minutes after the first. The first shock was a severe one shook the wooden posts of the sub-divisional officer's Bungalow alarmingly. No damage done.
July 1st.	*Khasi Hills,	...	3.15 P. M.	7 seconds.	N. to South.	Slight shock. No damage done.
"	"	...			N. to South.	Do. do.

List of Earthquakes recorded in Assam during the years 1879 and 1880.—Concluded.

Date.	District.	Time of occurrence.	Duration.	Apparent direction.	Extent of damage, if any and general Remarks.
1880.					
July 1st.	*Darrang,	4 P. M.	5 seconds.	Not noticed.	Slight shock. No damage done.
"	*Cachar,	4.30 P. M.	2 seconds.	S. W. to N. E.	Do. do.
" 2nd.	*Khasi Hills,	1.30 P. M.	4 seconds.	S. to North.	No damage done.
" 17th.	*Garo Hills,	4.30 A. M.	2 seconds.	Not known.	A very slight shock.
" 20th.	*Garo Hills,	3.30 A. M.	1 second.	Not known.	Do. do
Aug. 2nd.	*Cachar,	2 A. M.	About 30 m.	Not known.	No damage done.
" 5th.	*Khasi Hills,	7.45 A. M.	10 seconds.	S. to W.	None.
" 16th.	Kamrup,	11½ P. M.	1 second.	N. W. to S. E.	One shock, preceded by a rumbling noise like distant thunder. No damage done.
"	*Khasi Hills,	11.30 P. M.	5 seconds.	W. to South.	No damage done.
" 21st	*Darrang,	3.30 P. M.	10 seconds.	W. to East.	No damage, felt only at Mangaldai not at Tezapore.
" 22nd.	*Garo Hills,	3.22 A. M.	3 seconds.	—	Short but rather violent shock. The usual rumbling was succeeded by a shock from below, upwards and then by a lateral shake sufficient to make house posts crack.
Sept. 4th	*Garo Hills,	3 A. M.	2 to 3 seconds.	—	None, a very slight shock.
"	*Goalpara,	About 4 A. M.	2 seconds.	N. W.	Slight shock.
" 11th.	*Darrang,	12.15 A. M.	10 to 15 sec.	N. E. to S. W.	None. The shock was marked and distinct, it was preceded by the usual loud rumbling noise.
"	*Nowgong,	12.15 A. M.	3 seconds.	N. to South.	A slight shock. No damage done.
"	*Garo Hills,	12.15 A. M.	—	—	do.

13th.	*Nowgong,	... 4.15 A. M.	3 seconds.	N. to South.	A slight shock. No damage done.
" 23rd.	*Darrang,	... 2.17 P. M.	5 seconds.	S. to W.	Very slight No damage done.
" 27th.	*Khasi Hills,*	... 10.40 A. M.	15 seconds.	E. to W.	No damage done.
" 30th.	*Darrang,	... 7.50 P. M.	5 to 6 seconds.	—	Severe shock followed about a minute later by a second shock not quite so severe. No damage done.
" "	*Nowgong,	... 7.45 P. M.	2 seconds.	N. to South.	A slight shock. No damage done.
" "	*Sibsagar,	... 8 P. M.	10 seconds.	E. to W.	No damage.
Oct. 20th.	*Darrang,	... 2.55 A. M.	A few sec.	Not noticed.	Slight. No damage done.
" "	*Sibsagar Golághát,	4 A. M.	1 minute.	N. W. to S. E.	No damage.
Nov. 21st.	*Nowgong,	... 8 A. M.	3 seconds.	North to South.	A slight shock. No damage done.
Dec. 9th.	*Sibsagar,	... 6 A. M.	30 seconds.	East to West.	Slight. No damage.
" "	*Lakhimpur,	... 4.30 A. M.	Not observed.	—	Very slight.
" 12th.	*Khasi and Jaintea Hills,	... 1.45 P. M.	10 seconds.	S. W. to N. E.	Slight. No damage done.